

CONDUCTED BY WILLIAM CHAMBERS, AUTHOR OF "THE BOOK OF SCOTLAND," "GAZETTEER OF SCOTLAND," &c.

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RETROSPECTIVE REVIEW.

I AM fond of a walk through an ancient library, in which the long dim vista is partially illuminated by coloured streaks of light darted through the painted windows, so as to leave the room, here and there, in gloomy shade. How awful and sublime it is to plant one's self in the midst of this dignified silence, with a sombre Gothic roof overhead, and where, all around you, is built up the concentrated knowledge of man! How solemn the reflection, that, here, you stand the only living soul-the only being that breathes, and has power to speak, and can use a pen with his fingers; while, standing so near you, there are thousands of disembodied authors, whose mortal frames have long since sunk into the dust, to which you yourself must ere foug be also carried! How transcendent was the idea! how Godlike was the invention! of transferring the greatest minds of the past and passing ages into books. so that, at the distance of hundreds of years, their successors on this ever-shifting stage are enabled to re. ceive their instructions as fresh as from their living lips. How sweet and edifying is the converse which may be held amidst the chequered lights of such a chamber, with the sages of other years! How superior is such an enjoyment to those procured from many of the vain frivolities of the passing world! With what thankfulness do I lay down my friendly monitor!with what reverence do I commit the instrument of his instruction to its little receptacle, there to remain till again consulted by some similar visitor, probably a century after I shall have joined the spirit with whom I have been meditating There is something agreeable to the feelings of a living visitor, in these occasional researches amongst the volumes of almost neglected libraries. In the delight of drawing forth and consulting some volume, upon which the dust of years has been permitted to repose, the visitor, if himself engaged in the task of diffusing knowledge by the press, is apt to reflect that, when his works are perhaps consigned to a place in the range of volumes, he may be indebted to some similar enthusiast for the compliment of having his own dust sweet and his in ment of having his own dust swept away, and his in-structions brought once more into actual use. While of the place, he reflectively gratifies himself.—Ilaving ately sauntered, in the mood of mind now described, hrough a large library of neglected books, I was incressed with the idea, that, to take up a dust-covered volume at random, and communicate to the present generation some part of whatever wisdom it contained, would not only be an act of homage from the living to the dead, in itself highly commendable, but might to the dead, in itself highly commendable, but might be attended with much benefit. At the bottom of a neighbouring pilaster lay a tattered volume, of old-fashioned appearance, which seemed to be so much despised, as not to be conceived worthy of a place on the shelves; this, I thought, is a favourable specimen with which to commence my experiment. I therefore took it up, brushed off its coat of dust, and found it to be entitled, "Thoughts, Moral and Divine, upon Various Subjects, by Wellins Callcott, Gest., London." The reader will be able, after perusing the following

extract from its pages, to say whether my resolution be one worthy of being pursued any farther; but, in the meantime, I must express my own admiration of the fine strain of moral feeling which pervades the passage which follows, as well as the simple grandeur of its style. Probably, every successive week, I shall present to my readers a short piece of solemn or pious composition, equally calculated to fill their minds with ous or sacred reflection The subject is Hone

"The nearest way to honour, is, for a man so to live that he might be found to be that in truth he would be thought to be. "Tis honourable to support the glory of one's ancestors, by actions which correspond with their reputation; and it is also glorious to leave a title to one's descendants which is not borrowed from our predecessors; to become the head and author of our own nobility; and to become the head and author of our own nobility; and (to use the expression of Tiberius, who was desirous of hiding the defect of birth in Curtius Rufus, though otherwise a very great man) to be born of one's own self.
"True honour is seated in the soul. It rises from a generous heart, and flows with a natural and easy descent into all the different traces of life and channels of duty, refreshing, invigrating, and advanting all the foculities of

into all the different traces of life and channels of duty, refreshing, invigorating, and adorning all the faculties of the soul, the language of the tongue, the very air of the face, and motions of the body. It displays itself in a natural unaffected greatness and firmness of mind, improved by a train of wise and religious reflections, and generous actions, in which personal virtue and real merit truly consist. The Jewish Cabalists had a pretty allegory to express this truth, as founded in the original make and frame of nature. They tell us, that when Moses describes the great river of Eden branching out into four streams, we are to understand by paradise the mind or soul of man. The river was this original fountain of truth and virtue, arising from the very root and essence of the soul, and branching out into the four cardinal virtues, and all the other lower degrees and kinds of virtue—even the inferior morals of out into the four caroinal virtues, and all the other lower degrees and kinds of virtue—even the inferior morals of affability, politeness, good nature and good manners; and that, in short, there lies hid in the root of every human soul, however defaced by ignorance and deformed by vice, a fund of good, an oracle of truth, which, when assisted by soul, however defaced by agnorance and deformed by vice, a fund of good, an oracle of truth, which, when assisted by a happy concurrence of external causes, such as, particularly, the structure of the organs and the texture of the blood and spirits, will, by due culture and discipline, naturally exert itself into a train of great, generous, and beneficent actions, suitable to the original grandeur and dignity of its nature. This, in the present debased state of human nature, lies very often buried under the ruins of ignorance and vice, like valuable coins, medals, statues, pillars, and other beautiful ornaments of architecture; or, to speak more properly, that order, symmetry, and proportion, which were as the soul of the structure, lie buried under the ruins of a once famous and magnificent building. Hence it comes to pass, that many an excellent genius is lost to the would—lies hid amongst the rubbish of mankind; who, with proper assistance, due culture, and in a happy rituation, might have done honour to human nature, and been a public blessing to mankind. A man of honour, considered in this light, performs not only all the acts of virtue in public and private life, but does them with a peculiar propriety and dignity of behaviour, as the connoisseurs in writing, printing, music, architecture, or even dress, execute even the justest designs, not only with proportion and truth, but with such decorations, embellish dress, execute even the justest designs, not only with proportion and truth, but with such decorations, embellishments, and graces, as naturally flow from a fine taste, and an improved understanding. This alone, in high life, makes glorious princes, illustrious heroes, gallant commanders, vigilant magistrates, and honourable counsellors; and, in the lower degree of social life, indulgent husbands, tender fathers, affectionate friends, merciful landlords and masters, faithful tenants and servants; and executes all the relative duties of life with justice and honour. This is the true and real virtue, the only proper foundation of all the honourable distinctions among men in all the different stations of life. The bulk of mankind are caught by noise and show. The pompous sound of

titles and glitter of ornaments strike their senses, attract their attention, raise their admiration, and extort from them all that reverence and regard which are due only to eminent and distinguished ment; while real virtue and true honour pass silently through the world, unheeded and unregarded, but by the happy discerning few who are sensible of its merit, or enjoy the blessed communication of its influence. When those glorious spirits, whom Providence has appointed to be our guardians and protectors in this present state of imperfection and probation, survey the disordered state of human nature, agitated by blind passions, prejudiced by false opinions, into erroneous conclusions and wild pursuits, they view us with the same light, and with the same emotions of compassion and charity, as Monroe did his lunatic patients in Bedlam, who miscall and misapply almost every instance in which their duty and happiness is concerned. To those blessed intelligences, the silent life of a generous, compassionate, beneficent man, is more truly honourable than the pageantry of princes, the pomp of conquerors, and all the glorious impertinence of state. To them, an obscure good man, doing secret acts of charity, relieving the distressed, comforting the miserable, and approving himself, by habits of piety and devotion, to the great Author of his being, appears more truly glorious than the conqueror at the head of an hundred thousand men. To them the man of Ross appears in a fairer light in the Book of Remembrance, and will ever make a much more illustrious figure at the last great day, than Alexander, or Cæsar, or William the Conqueror, though a Christian. For to do good, to be lovers of mankind, to alleviate the distresses, and promote the peace and happiness of our fellow-creatures, is the highest honour, the noblest ambition, that can enter into the heart of man. But the greatest part of mankind judge quite otherwise. Noise and show, title and equipage, glitter and grandeur, constitute the whole idea of honour, and whoever and whoever can command an interest sufficient to procure, and an affluence sufficient to support them, becomes thereby not only a man of honour, but even a subordinate fountain of honour to others."

BURNS'S " JOLLY BEGGARS."

THE scene of the " Jolly Beggars" was an hostel in , Mauchline of the lowest possible description, to which beggars and vagrants resorted for lodging and food. It was adapted for the entertainment of such characters only, and no other sort of persons ever entered it, excepting, perhaps, such wags as Burns himself, when bent upon amusement, and desirous of seeing the west scenes which human nature can exhibit.

At the time Burns composed his poem, there were several houses of this kind in the country. At that period there were infinitely more beggars than at present, and their lodging-houses were of course more numerous. Begging might be said to have been then a much better trade, partly on account of the greater hospitality of the times, and partly by recean of its period there a much better trade, party on account of the greater hospitality of the times, and partly by reason of its professors being generally useful in retired places, as news-venders, as tale-tellers, and occasionally as smugglers The "randie gangrel bodies" of 1785 were therefore a more opulent and riotous class than those of the present degenerate days They could afford to spend between ten and twenty shillings in a afford to spend between ten and twenty shillings in a week upon the pleasures of a lodging-house, and to sit at their liquor from Saturday night till Tuesday or Wednesday morning; not that a lodging-house was preferred before other places of abode—as indeed a farmer's stable, loft, or outhouse with a good supper before bed, and their "parritch" in the morning when they rose, was invariably a more delectable object, as being perfectly elemosynary—but it was generally made a fixed point among them, to taste the luxuries of "Poosie's" horel at least once a-week, if funds were answerable, in order to refit for the next. funds were answerable, in order to refit for the next

campaign, and see their friends. The regularity of their meetings may be authenticated from Burns's own words: "In Poosie Nansie's held the splore;" the use of the definite article indicating that it was a

The person who supplies the information contained in this article happened, about the year 1794, to be personally intimate with the scenes so inimitably described in the poem, it being part of his duty as a dissen-constable, to visit, every night, the house to which the Jolly Beggars resorted, to see that every thing was quiet and orderly. To the admirers of the Cantata it may be interesting to have a more minute account of this scene in every particular than Burns has given; and though his sketch must fall infinitely short of the poet's outline, he will at least pledge himself to give a faithful transcript of his own recollections.

Poosie Nansie's cottage was a ruinous hovel of one story, with the thatch broken in several places, so that the family were sometimes blessed with the dews of Heaven in the most direct manner. From without, the house appeared to have two windows, one at each side of a low oval-shaped door; so that the contour of the whole bore no small resemblance the contour of the whole bore no small resemblance to the visage of a cat; the two chimneys rising from the roof being supposed to represent the erect ears of the animal. On entering, you were not troubled with the ceremony of an inner-door, nor was there any extent of lobby to traverse. About one yard any extent of londy to traverse. About one yard forward from the outer-door, on turning the corner of a small projection, the whole scene lay exposed to view. One end of the tenement was the room common to all. The price of lodging in this part of the domicile was one penny. The accommodations were of course by no means elegant. Here there was no form of beds: but merely a common hear of straw, of which by no means elegant. Here there was no form of beds; but merely a common heap of straw, of which a couch could be made by the guests themvelves, according to their own pleasure, or the means they possessed of dressing it The straw was squalid to the utmost degree, and enopped so small, by long service, that it was more like chaff than straw. However, a covering of "orra duds" made it quite as pleasant as if it had been less equivocal in its appearance. The chinney stood out from the gable of this apartment, like a pulpit, and almost as large. Here to the evenings, an immense fire was lighted, where apartment, like a pulpit, and almost as large. Here for the evenings, an immense fire was lighted, where Poosie herself—an old, bearded dame—was eternally engaged in cooking, and round which all the wretches gathered, to drink their "dear Kilbagie," &c. The furniture consisted of the merest fragments,—stools, originally quadruped, degraded into tripods, and even in some instances, into bipeds,—a long deal table with turned legs, one limb tethered to the other to keep the whole from strangling, and grooped into a horizontal whole from straggling, and propped into a horizontal position by supplementary peats,—pots that, in the course of time, had come to answer completely the fanciful description of the Irishman, "wanting feet, ears, and cheeks, with a bare-lip into the bargain," even the articles of stoneware seemed to be in the most dilapidated condition; the most of them had ceased to be vessels of quantity, and become mere shreds of plain surface; or if a hollow was attained, it was only at the expense of a larger vessel; for in-stance, a cup was perhaps fashioned out of the lar-board side of a tureen.

board side of a tureen.

Such was the apartment of Poosie Nansie's house, in which lodging was to be had at the low price of one penny. This was the House of Commons: now for the House of Peers ! The House of Peers was the spence, or better part of the dwelling, in which the more respectable sort of beggars were deposited, apart from the vulgar throng. A division was accomplished by means of a partition formed of straw, curiously wattled and mixed with clay. The accommodations here were considerably superior to those of the meaner apartment. Here there were actually beds! — beds formed of straw, it is true, but vet nossessed of the apartment. Here there were actually beds: — beds formed of straw, it is true, but yet possessed of the inestimable advantages of a species of covering like horse-rugs. Here there were also chairs, generally with bottoms, and sometimes even with backs. One horse-rugs. Here there were also chairs, generally with bottoms, and sometimes even with backs. One side of the Chamber of Peers was entirely occupied by two ranges of beds in tiers; and "the kipples" in this part of the house were covered with a firm footing, and filled with receptacles like." chicken-cavies" ranged all round, which were accessible from below by an infirm trap-stair, fashioned like a hen's ladder. The price of lodging in this magnificent quarter was two pennee.

But what avails it to describe the mere external But what avails it to describe the mere externals of the immortal Poosie Nansie's hostelry, if its internal economy, its wonderful inmates, and its glorious "splores," are to remain undelineated? Oh, for the pen of Burns, to fill up the exquisite outline which he has left us,—to paint a Saturday night scene in all its depth and breadth of colouring, and with that minute faithfulness of touch so necessary to a general comprehension of the whole! Alas, the only hand that could do it justice is torpid and forgetful of its ennning! The sun himself is set, and a dim "gloamin" alone remains, capable of throwing but little light upon the subject. We have promised,

however, to do our best.

As the approach of night calls home all the creatures of animated nature to rest and enjoyment, so, in these good old times, did Saturday night, the sunset of the week, bring to roost all the stray some sourcesting, by the festiof poverty, bent upon compensating, by the festi-vity of one night, the contumelies, the wanderings, the hunger, cold, pain, and abstinence, of the rest. On that evening, therefore, whole fleets of mendicants might be seen thronging the roads, bound for Poosie Nansie's, to "haud the splore,? and pouring in at all the "town-ends" in Mauchline. The oval-shaped door we have described received them within its crater, as the bung-hole in the genie's cask in the Acadian Night's Eventationals received. within its crater, as the bung-hole in the genie's cask, in the Arabian Night's Entertainments, received the vapour into which the fisherman had caused him to dissolve himself. Then would there be recognitions of acquaintance, and the most ceremonious shaking of hands imaginable; for they were always ceremonious, till such time as the ice of politeness was thawed by the genial warmth of a few preliminary drams; when, of course, there was a greater community of friendly feeling throughout. But not more wonders in the dissolution of ceremony did Poosie's Kilbagie achieve, tuan did her large pulpit-looking fire round which they gathered, in respect of relaxing with equally potent heat the cripple limbs of the company. It was truly amazing to ple limbs of the company. It was truly amazing to witness the miracles wrought by Poosie's wonderful fire. The miserable wretch who perished with the rheumatism, and walked double through the week, was cured in an instant, as if the demon of the disease was cured in an instant, as if the demon of the disease at a wave. In proportion as the debauch or battle had fled from his bones on coming within the influence of a spell. The "po-or ou-ld bli-nd man," who had howled forth the terrible circumstances of his condition, vexing the ears of the lieges, for six long days, suddenly opened his eyes to the blessings before him, breed. It seemed to be then the general wish that as if he had only awoke from a long sleep. The "poor sailor lad," too, who had lost an arm with Rodney, on the glorious 12th of August, 1782, seemed suddenly to forget all the effects of the engagement, and, in the twinkling of a handspike, the long deceased limb sprang from the jacket, into all its pristine health and vigour. More astonishing resurrections of enjoyment, or obstreperousness of mirth,—partly ceased limb sprang from the jacket, into all its pristine health and vigour. More astonishing resurrections than even that took place. Legs accustomed to "limp wi' the spavie," recovered their vigour and proportion. Legs grew down from trunks formerly detruncated, and arms sprang from shoulders erst apparently stumps. Immense blotches that, in week days, excited the commiseration of the charitable, in the character of plague spots upon the skin, at once disappeared, "and, like the baseless fabric of a vision, disappeared, "and, like the baseless fabric of a vision, left not a wreck behind." The man "with a brown leg and a blue one," who had "had the black scurvy in Jamaica, and come home a poor helpless object," became in a moment the soundest and liveliest man in the company; and the wretch who trembled through the week between two crutches, as if every part of his body were taking leave of the other, now shivering with the ague, and at other times agonized by the cramp, threw by his wooden friends and was "himself again." In short, the transformations and cures accomplished at Poosie Nansie's freside, were ficient member. No sooner were the window shutters of night all

fairly closed in, and every thing snug, than the festi-vities of the evening commenced. Tea was paraded by the females of the company, and drunk from luggies, paups and tinnies, all of them vessels not easily broken. Fowls and pieces of meat were somesince the state of in cooking. To these were added savoury messes, consisting of cold meat, eggs, hares, and other articles of food the most incongruous in association, seasoned of food the most incongruous in association, seasoned highly with salt, pepper, onions, and occasionally garlie. As soon as the feast was pretty well overfor it never could be said to be altogether done—the flercer debaucheries began, and the hostess was in perpetual demand for supplies of more liquor. Nansie did not retail spirits herself, but procured what was wanted from a neighbouring shop, where she was allowed a small emolument for her custom, which she contrived to increase not a little by cheating her guests of an enormous commission (in which she contrived to increase not a little by cheating her guests of an enormous commission (in kind) for her trouble Kilbagie was then sold so low as one penny per gill; of course it was quite possible to get completely intoxicated for four pence. Over this stuff they were wont to carouse till midnight, when the mirth and fun generally grew so fast and furious, that nothing could contain them, and their joy could only find vent in the confusion of a dance, or a squabble. If the former amicable method chanced to be adopted, the floor was cleared in an instant for action. The whole of Nansie's furniture was promiscuously huddled into a corner, and to it they set, men, women, and children, like a parcel of

infuriated Bacchanalians, tossing their limbs wildly about, and using gesticulations, and setting into attitudes, that no language can paint. After tiring of this exercise, they would again sit down to deep debauch, and drink till morning light, about which time all that and drink till morning light, about which time all that had survived the soporific effects of the liquor, were commonly engaged in a Polymachia, or battle general; which exertion was for the most part quite as effectual in laying the company low, as the Kilbagie. They seemed to fight themselves out, in short; and one by one dropped from the scene, till not a combatant was left. All were on the floor, dead, flat, and peaceable. Sanday morning, which right is Sootpeaceable. Sanday morning, which, rising in Scot-land, finds all nature reduced to a state of perfect calm, usually found the inmates of Poosie Nansie's hotel in the same circumstancs. All was quiet; but it was the quiet of desolation The whole apartment t was the quiet of desolation. The whole apartment seemed strewn with the ruins of the human race,—
"reliquiæ Danaum."—a heterogeneous chaos of carcasses, heads, arms, women, children, wooden legs, and other fragments of humanity, together with the no less disabled pieces of Nansie's furniture, that were in every respect analogous to the strange beings who sed them on the preceding evening.

Through the course of Sunday, it was observed that the inmates of Nansie's mansion were wonderfully quiet and orderly. If the weather was good, many put off the day by sitting upon turf seats at the door, smoking and talking; while the children lay half naked upon the green, amusing themselves with every spe-cies of feat and play, like Nereids sporting on the azure wave. In proportion as the debauch or battle of the preceding evening had been fierce and fatal, of enjoyment, or obstreperousness of mirth,—partly for the sake of decorum, partly on account of low finances, and principally because their spirits, which, suppressed through the week, burst out into the most violent expression on Saturday night, were so far exhausted by the first overflow, that little material remained to be expended upon the second. On Monday morning, it was a rich sight to see the crapulous wretches take their departure from Mauchline, with empty wallets, sore heads, and sneaking aspects,—so completely spent in every respect by the excesses they had committed, that their wretched appearance looked a thousand times more wretched; and what had formerly seemed only ruins of humanity was now the wreck of ruins.

* Kilbagie was the greatest distillery of spirituous liquors at that time in Scotland. There were then so few others, that more usquebe was produced there, than at all the rest together. It was not of the best quality; but it was the cheapest to be had—and that was a sufficient reason for its being a favourise with Poosie Nansie's clubs.

OLD SCOTTISH MODE OF DISCOVERING MURDER.

In tracing the customs of our ancestors, we alternately pity their superstitious usages, and are amused at the credulity of the legislature, in continuing absurdities which would now be scoffed at even by children. There was a superstitious notion once exceedingly prevalent, regarding the discovery of the murderer by the touch of the dead body. In Germany, this experiment was called bahr recht, or the law of the bier, because, the murdered body being stretched upon a bier, the suspected person was obliged to put one hand upon the wound, and the other upon the mouth of the deceased, and, in that posture, call upon heaven to attest his innocence. If, during this ceremony, the blood gushed from the mouth, nose, or wound, a circumstance not unlikely to happen in the course of shifting or stirring the body, it was held sufficient evidence of the guilt of the party. The same singular kind of evidence was admitted in the Scottish Criminal Courts, at the short distance of little process. short distance of little more than a century. Foun-tainhall relates a most dreadful instance of this perversion of jurisprudence The case was that of Philip-Stanfield, tried upon the 30th November, 1687, for cursing his father, (which, by the Scottish law, is a capital crime, Act 1661, chap. 20,) and for being accessary to the murder. Sir James Stan-field, the deceased, was a person of melancholy temperament; so that, when his body was found in and near his own house of Newmilns, he was at first generally supposed to have drowned himself. But the body having been hastily buried, a report arose that he had been strangled by ruffians, instigated by his son Philip, a profigate youth, whom he had disinherited, on account of his gross debauchery. Upon this rumour, the Privy Council granted warrant

to two surgeons of character, named Crawfurd and Muirhead, to dig up the body, and to report the state in which they should find it Philip was present on this secasion, and the evidence of both surgeons bears distinctly, that he stood for some time at a distance from the body of his parent; but, being called upon to assist in stretching out the corpse, he put his hand to the head, when the mouth and nostrils instantly gusbed with blood. This circumstance, with the evident symptoms of terror and remorse exhibited by young Stanfield, seems to have had considerable weight with the jury, and is thus stated in the indictment:—"That his (the deceased's) nearest relatives being required to lift the corpse into the coffin, after it had been inspected, upon the said Philip; and that thereupon he let the body fall, and field from it in the greatest consternation, crying, 'Lord have mercy upon me!'" The prisoner was found guilty of being accessory to the murder of his father, although there was little more than strong presumptions against him. It is true, he was at the same time separately convicted of the distinct crimes of having cursed his father, and drunk damnation to the monarchy and hierarchy. His sentence, which was to have his tongue cut out, and hand struck off. neveious to his being hangeursed his father, and drunk damnation to the monarchy and hierarchy. His sentence, which was to have his tongue cut out, and hand struck off, previous to h's being hanged, was executed with the utmost rigour. He denied the murder with his last breath. "It is," says a contemporary judge, "a dark case of divination, to be remitted to the great day, whether he was guilty or innocent. Only, it is certain he was a bad youth, and may serve as a beacon to all profligate persons."

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ORIGIN AND PROGRESS OF THE ART OF PRINTING.

ORIGIN AND PROGRESS OF THE ART OF PRINTING.

The eccedingly ingenious invention of printing with metal types, on paper, was first brought to light in Germany, a country lying near the heart of the continent of Europe, and most remarkable in the history of markiad for having furnished not only this, but some other very important improvements in the mechanical arts. Until this invention took place, in the course of the fifteenth century, no nation in the world possessed a distinct knowledge of its neighbour, or was even acquainted with its own internal properties. All communications had to be effected by means of writing, or by special measengers, and the knowledge gleaned by one generation ran always a risk of being lost to those which came after it, for want of a permanent medium of communication. To investigate properly, says Hansard, the origin of printing, it is necessary to carry our research to a period far more remote than that at which the art became applicable to the making of books. The early inhabitants of the earth would naturally desire to perpetuate their useful discoveries, as well as the important events of their time; and it may be therefore fairly presumed, that they had some mode of communication of an alphabet. The scanty traditions received concerning the antediluvians do not enable us to come to any determination relative to their proficiency in communicating the transactions of their time; whether, therefore, they employed stamps of any kind, or had any means whatever of transmitting knowledge, except by oral tradition, we have neither history nor relies to inform us. But that period which immediately followed the Deluge, and which some chronologers have termed the second age of the world, affords convincing proofs of the art of forming impressions being then practised; and most probably with a view to propagate science—to inculcate special facts—and as a general means of preserving to posterity certain useful memorials. Purposes such as these, it is reasonable to conclude, were contemplat

such a gorgeous scene of civic ostentation!

[The foregoing is offered as the first of a series of short papers on the origin, progress, and perfection of the art of printing will metal types. This has been one of the noblest inventions of man, and, I think, by far too little is generally known of it. The mass of curious and instructive particulars before me on this interesting subject is very considerable, consisting of the very best works an papers on printing. I design to trace the invention through its preliminary stages—to describe how it was finally brought to light—the first books printed—the earliest foreign and British printing—the original and improved presses—the modern improvements—ending with what may be called the sublimation of the art, is printing sheets by steam at the rate of some thousands in the hom In the latter department I shall be assisted by an intelligent practical printer.]

LADY JEAN.

Concluded from No. I.
When the ceremony was concluded, and both the clergy

men and the witnesses had been satisfied and dismissed, the lovers left the house, with the design of walking forwards into the city. In conformity to a previous arrangement, Lady Jean walked first, like a lady of quality, and Richard followed closely behind, with the dress and deportment of her servant. Her ladyship was dressed in her finest suit, and adorned with her finest jewels, all which she had brought from Cumbernauld on purpose, in a mail or leathern trunk—for such was the name then given to the convenience now entitled a portmanteau, lifer step was light, and her bearing gay, as she moved dong,—not on account of the success which had attended are expedition, or her satisfaction in being now united to he man of her choice, but because she anticipated the highest pleasure in the sight of a place whereof she had leard such wonderful stories, and from a participation in whose delights she had been so long withheld. Like all bersons educated in the country, she had been regaled in her infancy with magnificent descriptions of the capital,—of its buildings that seemed to mingle with the clouds,—its shops, which apparently contained more wealth than all the world beside,—of its paved streets, (for paved streets were then wonders in Scotland,)—and above all of the grand folks who thronged its Highgates, its Canongates, and its Cowgates—people whose lives seemed a perpetual holyday, whose attire was ever new, and who all lived in their several palaces. Though, of course, Edinburgh had then little to boast of, the country people who occasionally visited it did not regard it with less admiration than that with which the peasantry of our own day may be supposed to view it now that it is something so very different. It was then, as well as now, the capital of the country, and, as such, bore the same disproportion in point of magnificence to inferior towns, and to the cheard all its glorious peculiarities described by her sisters, who, moreover, sometimes took occasion to colour the picture too highly, in order to r

splendour—a scene in which nothing horrible or paltry mingled, but which was altogether calculated to awe or to delight the senses.

Her ladyship was destined to be disappointed at the commencement, at least, of her acquaintance with the city. The first remarkable object which struck her eye, after leaving the inn, was the high bow, or arch, of the gate called the West Port. In this itself there was nothing worthy of particular attention, and she rather directed her eyes through the opening beneath, which half disclosed a wide space beyond, apparently crowded with people. But when she came close up to the gate and cast, before passing, a last glance at the arch, she shuddered at the sight then presented to her eyes. On the very pinnacle of the arch was stuck the ghastly and weatherworn remains of a human head, the features of which, half flesh half bone, were shaded and rendered still more indistinctly horrible by the long dark hair, which hung in meagre tresses around them. "Oh, Richard, Richard!" she exclaimed, stopping and turning round, "what is that dreadful looking thing!"—"That, madam," said Richard, without any emotion, "is the broken remnant of a west country preacher, spiked up there to warn his countrymen who may approach this port, against doing any thing to incur the fate which has overtaken himself. Methinks he has preached to small purpose, for yonder stands the gallows, ready, I suppose, to bring him some brother in affliction."—"Horrible!" exclaimed Lady Jean; "and is this really the fine town of Edinburgh, where I was taught to expect so many grand sights? I thought it was just one universal palace, and it turns out to be a great charnel-house!"—"It is indeed more like that than any thing else at times," said Richard; "but, my dear Lady Jean, you are not structured to the care of t palace, and it turns out to be a great charnel-house!"—
"It is indeed more like that than any thing else at times,"
said Richard; "but, my dear Lady Jean, you are not
going to start at this bugbear, which the very children, you
see, do not heed in passing;"—"Indeed I think, Richard,"
answered her ladyship, "if Edinburgh is to be all like
this, it would be just as good to turn back at once, and
postpone our visit till better times."—"But it is not all
like this," replied Richard; "I assure you it is not. For
Heaven's sake, my lady, move on. The people are beginning to stare at us. You shall soon see grand sights
enough, if we were once fairly out of this place. Make
for the opposite corner of the Grassmarket, and ascend the
street to the left of that horrible gibbet. We may yet get
past it before the criminals are produced."
Thus admonished, Lady Jean passed, not without a
shudder, under the dreadful arch, and entered the spacious
oblong square called the Grassmarket. This place was
crowded at the west end with rustics engaged in all the
bustle of a grain and cattle market, and at the eastern
and most distant extensity with a mol of didlers who had

onling square catled the Grassmarket. This place was crowded at the west end with rustics engaged in all the bustle of a grain and cattle market, and at the eastern and most distant extremity with a mob of idlers who had gathered around the gibbet in order to witness the awful ceremony, that was about to take place. The crowd, which was scarcely so dense as that which attends the rarer scene of a modern execution, made way on both sides for Lady Jean as she moved along; and wherever she went she left behind her a wake, as it were, of admiration and confusion. So exquisite and so new a beauty, so splendid a suit of female attire, and such a stout and handsome attendant—these were all alike calculated to inspire reverence in the minds of the beholders. Her carriage at the same time was so steady and so graceful, that no one could be so rude as to interrupt or disturb it. The people, therefore, parted when she approached, and left a tree passage for her on all sides, as if she had been an angel or a spirit come to walk amidst a mortal crowd, and whose person could not be touched, and might scarcely

be beheld—whose motions were not to be intertered with by those among whom she chose to walk—but who was to be received with prostration of spirit, and permitted to depart as she had come, unquestioned and unapproached. In traversing the Grassmarket, two or three young coxcombs, with voluminous wigs, short cloaks, rapiers, and rose-knots at their knees and shoes, who, on observing her at a distance, had prepared to treat her with a condescending stare, fell back, awed and confounded, at her near approach, and spent the gaze, perhaps, upon the humbler mark of her follower, or upon vacancy.

Having at length passed the gibbet, Lady Jean began to ascend the steep and tortuous street denominated the West Bow She had hitherto been unable to direct any attention to what she was most anxious to behold,—the scenic wonders of the capital. But having now got clear of the crowd, and no longer fearing to see the gallows, she ventured to lift up her eyes and look around. The tallness and massiveness of the buildings, some of which bore the cross of the Knights Templars on their pinnacles, while others seemed to be surmounted or overtopped by still taller edifices beyond, impressed her imagination; and the effect was rendered still more striking by the countless human figures which crowded the windows, and even the roofs of the houses, all alike bending their attention, as she thought caused her to hurry on, and she soon found herself in a great measure screened from observation by the overhanging projections of the narrower part of the West Bow, which she now entered. With slow and difficult, but stately and graceful steps, she then proceeded, till she reached the upper angle of the street, where a novel and unexpected scene awaited her. A sound like that of rushing waters seemed first to proceed from the part of the street still concealed from her view, and presently appeared round the angle, the first rank of an impetuous crowd, wno, rushing downward with prodigious force, would certainly have overwhelmed her delicate for figured in the campaigns of Middleton and Montrose, and whose bronzed inflexible faces bore on this melancholy occasion precisely the same expression which they ordinarily exhibited on the joyful one of attending the magistrates at the drinking of the king's health on the 29th of May. Behind these, and encircled by some other soldiers of the same band, appeared two figures of a different sort. One of them was a young looking, but pale and woe-worn man, the impressive wretchedness of whose appearance was strikingly increased by the ghastly dress which he wore. He was attired from head to foot in a white shroud, such as was sometimes worn in Scotland by criminals at the gallows, but which was, in the present instance, partly assumed as a badge of innocence. The excessive whiteness and emaciation of his countenance suited well with this dismal apparel, and, with the wild enthusiasm that kindled in his eyes, gave an almost supernatural effect to the whole scene, which rather resembled a pageant of the dead than a procession of earthly men. He was the only criminal the person who walked by his side, and occasionally supported his steps, being—as the crowd whispered around, with many a varied expression of sympathy—his father. The old man had the air of a devout Presbyte-inin, with harsh, intelligent features, and a dress which besnoke his being a countryeap of the lower vank supported his steps, being—as the crowd whispered around, with many a varied expression of sympathy—his father. The old man had the air of a devout Presbytenian, with harsh, intelligent features, and a dress which bespoke his being a countryman of the lower rank. According to the report of the bystanders, he had educated this, his only son, for the unfortunate Church of Scotland, and now attended him to the fate which his talents and violent temperament had conspired to draw down upon his head. If he ever felt any pride in the popular admiration with which his son was honoured, no traces of such a sentiment now appeared. On the contrary, he seemed humbled to the very earth with sorrow; and though he had perhaps contemplated the issue now about to take place, with no small portion of satisfaction, so long as is was at a distance and uncertain, the feelings of a father had evidently proved too much for his fortitude, when the event approached in all its dreadful reality. The emotions perceptible in that rough and rigid countenance were the more striking, as being so much at variance with its natural and characteristic expression; and the tear which gathered in his eye excited the greater commiseration, in so far as it seemed a stranger there. But the hero and heroine of our tale had little time to make observations on this piteous scene, for the train passed quickly on, and was soon beyond their sight. When it was gone, the people of the Bow, who seemed accustomed to such sights, uttered various expressions of pity, indignation, and horror, according to their respective feelings, and then slowly retired to their dens in the stairs and booths which lined the whole of this ancient and singular street.

Lady Jean, whose beautiful eyes were suffused with (ears

the stairs and booths which lined the whole of this ancient and singular street.

Lady Jean, whose beautifuleyes were suffused with tears at beholding so melancholy a spectacle, was then admonshed by her attendant to proceed. With a heart deadened to all sensations of wonder and delight, she moved forward, and was soon ushered into the flace called the Lawarantet.

then perhaps the most fashionable distract in Edinburgh but the grandeur and spaciousness of which she beheld almost without admiration. The scene here was, however much gayer, and approached more nearly to her splendid preconceptions of the capital than any she had yet seen. The shops were, in her estimation, very fine, and some of the people on the street were of that noble description of which she had believed all inhabitants of cities to be. There was no crowd on the street, which, therefore, afforded room for a better display of her stately and heautiful person; and as she walked steadily onwards, still ushed (for such was then the phrase) by her handsome and noble-looking attendant, a greater degree of admiration was excited amongst the gay idlers whom she passed, than even that which marked her progress through the humbler crowd of the Grassmarket. Various noblemea, in passing towards their homes in the Castle Hill, lifted their feathered hats and bowed profoundly to the lovely vision; and one or two magnificent dames, sweeping along with their long silk trains, borne up by livery-men, stared at or eyed askance the charms which threw their own so completely into shade. By the time Lady Jean arrived at the bottom of the Lawnmarket, that is to say, where it was partially closed up by the Tolbooth, she had in a great measure recovered her spirits, and found herself prepared to enjoy the sight of the public buildings, which were so thickly clustered together at this central part of the city. She was directed by Richard to pass along the narrow road which then led between the houses and the Tolbooth on the south, and which, being continued by a still narrower passage skirting the west end of St. Giler's church, formed the western approach to the Parliament Close. Obeying his guidance in this tortuous passage, she soon found herself at the opening of the square space, so styled on account of its being closed on more than one side by the meeting-place of the legislative assembly of Scotland. Here "placed the de

sou respect to their masters. Some smart and well-dressed young gentlemen were arranging their cloaks and swords, and preparing to leave the square on foot, by the passage which had given entry to Master Richard and Lady Jean. At sight of our heroine, most of these gallants stood still imadmiration, and one of them, with the trained assurance of a rake, observing her to be beautiful, a stranger, and not see well protected, accosted her in a strain of language which caused her at once to blush and tremble. Richard's have reddened with anger, as he hesitated not a moment in steeping up and telling the offender to leave the lady alone, on pain of certain consequences which might not prove speaks. "And who are you, my brave fellow?" said the youth, with bold assurance. "Sirrah!" exclaimed the posth, with bold assurance. "Sirrah!" exclaimed the other. "Ha! ha! ha! ha! Here, Sirs, is a lady lacquey, who does not know whether be is his mistress's servant or her husband. Let ut give him up to the Townguard to see whether the black-hole will make him remember the real state of the case. So saying, he attempted to push Richard aside and take hold of the lady. But he had not time to touch her garments with so much as a finger, before her protector had a rapier flourishing in his eyes, and threatened him with instant death, unless he desisted from his profane purpose. At sight of the bright steel, he stepped back one or two paces, drew his own sword, and was preparing to fight, when one of his more grave associates called out, "For shame, Rollo!—with a lady's lacquey, too, and in the presence of the Dake and Duchess! I see their Royal Highnesses, already alarmed, are inquiring the cause of the disturbance." It was even as this gentleman said, and presently came up to the scene of contention some of the most distinguished personages in the crowd, one of whom demanded from the parties an explanation of so disgraceful an occurrence. "Why, here is a fellow, my lord," answered Rollo, "who says he is the husband of a lady whom h

this time in Pennsylvania?" The two lovers, thus recognized by their respective parents, stood with downcast looks, and perfectly silent, while all was buzz and confusion in the brilliant circle around them; for the parties concerned were not more surprised at the aspect of their affairs, than were all the rest at the beauty of the far-famed, but hitherto unseen, Lady Jean Fleming The Earl of Linlithgow, Richard's father, was the first to speak aloud, after the general astonishment had for some time subsided; and this he did in a laconic though important query, which he couched in the simple words, "Are you married, bairns?" Yes, dearest father," said his son, gathering courage, and coming close up to his saddle-bow; "and I beseeth you to extricate Lady Jean and me from this crowd, and I shall tell you all when we are alone."—"A pretty man ye are, truly," said the old man, who never took any thing very seriously to heart, "to be staying at hame, and getting yourself married, all the time you should have been abroad, winning honour and wealth, as your gallant grand-uncle did wi' Gustavus i' the thretties! Hooever, since better mayna be, I maun try and console my Lord Wigton, who, I doot, has the worst o' the bargain, ye ne'er-downed!" He then went up to Lady Jean's father, shook him by the hand, and said, "that though they had been made relations against their wills, he hoped they would continue good friends. The young people," he observed, "are no that ill-matched; and it is not the first time that the Flemings and the Livingstones have melled together, as witness the blythe marriage of the Queen's Marie to Lord Fleming, in the feifteen-saxty-five. At any rate, my lord, let us put a good face on the matter, afore they glowring gentles, and whiper-snapper Duchesses. I'll get horses for the two, and they'll join the ridin' down the street; and de'il ha'e me, if Lady Jean disna outshine them, the hale o' them!"—"My Lord Linlithgow," responded the graver and more implacable Earl of Wigton, "it may set you to take t these being speedily procured, Lord Richard and his bride were requested to mount; after which they were formally introduced to the gracious notice of the Duke and Duchess of York, and the Princess Anne, who happened to attend Parliament on this the last day of its session, when it was customary for all the members to ride both to and from the House in an orderly cavalcade The order was now given to proceed, and the lovers were soon relieved, in a great measure, from the embarrassing notice of the crowd, by as suming a particular place in the procession, and finding themselves confounded with more than three hundred equally splendid figures. As the pageant, however, moved dowr, the High Street, in a continuous and open line, it was impossible not to distinguish the singular loveliness of Lady Jean, and the gallant carriage of her husband, from all the rest. Accordingly, the very trained bands and city guard, who lined the street, and who were, in general, quite as insensible to the splendours of the Riding, as are the musicians in a modern orchestra to the wonders of a melo-dramin in its fortieth night,—even they perceived and admired the graces of the young couple, whom they could not help gazing after with a stupid and lingering delight. From the windows, too, and the stair-heads, their beauty was well observed, and amply conjectured and commented on; while many a young cavalier endeavoured, by all sorts of pretences, to find occasion to break the order of the cavalcade, and get himself haply placed nearer to the exquisite figure, of which he had got just one killing glance in the square. Slowly and majestically the brilliant train paced down the great street of Edinburgh,—the acclamations of the multitude ceaselessly expressing the delight which the people of Scotland felt in this sensible type and emblem of their ancient independence. At length they reached the court-yard of Holyrood-house, where the Duke and Duchess invited the whole assemblage to a ball, which they designed to give that evening in the hal imprudence. On alighting at Lord Wigton's house, Lady Jean foundher sisters confined to their rooms with headachs, or some such serious indisposition, and in the utmost dejection on account of having been thereby withheld from the Riding of the Parliament. Their spirits, as may be supposed, were not much elevated, when, on comizg forth in dishabille to welcome their sister, they found she had had the good fortune to be married before them Their ill luck was, however, irremediable; and so, making a merit of submitting to it, they condescended to be rather agreeable during the dinner and the afternoon. It was not long before all parties were perfectly reconciled to what had taken place; and by the time it was necessary to dreas for the ball, the elder young ladies declared themselves so much recovered as to be able to accompany their happy sister. The Earl of Linlithgow and his son then sent a servant for proper dresses, and prepared themselves for the occasion without leaving the house. When all were ready, a number of chairs were called to transport their dainty persons down the street. The news of Lady Jean's arrival, and of her marriage, having now spread abroad, the court in front of the house, the alley, and even the open street, were crowded with people of all ranks, anxious to catch a passing glimpse

of the herome or so strange a tale. As her chair was carried along, a buzz of admiration from all who were so happy as to be near it, marked its progress. Happy, too, was the gentleman who had the good luck to be near her chair as it was set down at the palace gate, and assist her in stepping from it upon the lighted pavement From the outer gate, along the piazza of the inner court, and all the way up the broad staircase to the illuminated hall, two rows of noblemen and gentlemen formed a brilliant avenue, as she passed along, while an hundred plumed caos were doffed in honour of so much beauty, and as many youthful eyes glauced bright with stitisfaction at beholding it. The object of all this attention tripped modestly along in the hand of the Earl of Linlithgow, acknowledging, with many a graceful flexure and undulation of person, the compliments of the spectators. At length the company entered the spacious and splendid room in which the ball was to be held. At the extremity opposite to the entry, upon an elevated platform, sat the three royal personages, all of whom, on Lady Jean's introduction, rose and came forward to wellowe her and her husband to the entertainments of Holyrood, and to hope that her ladyship would often adorn their circle. In a short time the dancing commenced; and amidst all the ladies who exhibited their charms and their magnificent attire in that captivating exercise, who was, either in person or dress, half so brilliant as Lady Jean's of the herome or so strange a tale. As her chair ried along, a buzz of admiration from all who were i as to be near it, marked its progress. Happy, too,

that captivating exercise, who was, either in person of dress, half so brilliant as Lady Jean?

A Derryshire Tale.—About twenty or thirty years since, a gentleman named Webster, who lived in the Woodlands, a wild uncultivated barren range of hills in Derbyshire, bordering upon the confines of Yorkshire, had occasion to go from home. The family, besides himself, consisted of the servant man, a young girl, and the house-keeper. At his departure he gave his man a strict charge to remain in the house, along with the females, and not on any account to absent himself at night, until his return. This the man promised to do; and Mr. Webster proceeded on his journey. At night, however, the man went out, notwithstanding all the earnest entreaties and remonstrances of the housekeeper to the contrary, and not coming in, she and the servant girl at the usual time went to bed. Sometime in the night, they were awakened by a load knocking at the door. The housekeeper got up, went down stairs, and inquired who was there, and what was their business? She was informed that a friend of Mr. Webster being benighted, and the night wet and stormy, requested a night's lodging. She forthwith gave him admittance, roused up the fire, led his horse into the stable, and then returned to provide something to eat for her guest, of which he partoet, and was then shown to his chamber. On returning to the kitchen, she took up his greatcoat in order to dry it, when perceiving it to be, as one thought, very heavy, curiosity prompted her to examine the pockets, in which she found a brace of loaded pistols, and their own large carving knife? Thunderstruck by this discovery, she immediately perceived what sort of a guest she had to deal with, and his intentions. However, summoning up all her courage and resolution, she proceeded softly up stairs, and, with a rope, fastened, as well as she could, the door of the room in which the villain was; then went down, and in great perturbation of mind awaited the event. Shortly after a man came to the window, a

BIOGRAPHIC SKETCHES.

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JAMES FREGUSON.

In the first number of the Journal, I presented a sketch of the life and character of our late distinguished townsman, Dr. Adam, in whom genius was early manifested, and ultimately rewarded. I may now offer a similar biographic sketch of our illustrious countryman, James Ferguson, the Astronomer. These, I hold up to my juvenile friends as patterns truly worthy of their imitation; and fully impressed with the conviction that such sketches may be found beneficial, I shall, in the language of the suthor of a work entitled "the Pursuit of Knowledge under Difficulties," continue to select, from the records of phalosophy, literature, and art, in all ages and countries, a body of examples, to shew how the most unpropitious circumstances have been unable to conquer an ardent desire for the acquisition of knowledge. Every man has difficulties to encounter in this pursuit; and, therefore, every man is interested in learning what are the real hindrances which have opposed themselves to the progress of some or the most distinguished persons, and how those obstackes have been aurmounted. The love of knowledge will, of itself, do a great deal towards its acquisition; and if it exist with that force and constancy which it exhibits in the characters of all truly great men, it will induce that ardent but humble spirit of observation and inquiry, without which there can be no success.

"Among self-educated men there are few who claim more of our admiration than the celebrated James Ferguson. If ever any one was literally his own instructor in the very elements of knowledge, it was he. Acquisitions that have scarcely in any other case, and, probably, never by one so young, been made without the assistance either of books or a living teacher, were the discoveries of bis solitary and almost illiterate boyhood. There are

lew mans interesting astratives in any ianguage than the second which Ferguson himself has given of his early labtory. He was born in the year 1710, a few miles from the village of Keith, in Banfishire; his parents, as he tells us, being in the humblest condition of life, (for his father was merely a day-labouer), but religious and honest It was his father's practice to teach his children himself to read and write, as they successively reached what he deemed the proper age; but James was too impatient to wait till his regular turn came. While his father was teaching one of his elder brothers, James was secretly occupied in listening to what was going on; and, as soon as he was left alone, used to get hold of the book, and work hard in endeavouring to master the lesson which he had thus heard gone over Being ashamed, as he says, to let his father know what he was about, he was wont to spply to an old woman who lived in a neighbouring cottage to solve the difficulties. In this way he actually learned to read tolerably well before his father had any suspicion that he knew his letters. His father, at last, very much to his surprise, detected him one day reading by himself, and thus found out his secret.

"When he was about seven or eight years of age, a simple incident occurred which seems to have given his mind its first bias to what became afterwards its favourite hind of pursuit. The roof of the cottage having partially fallen in, his father, in order to raise it again, applied to it a beam, resting on 2 prop in the manner of a lever, and was thus enabled, with comparative ease, to produce what seemed to his son quite a stupendous effect. The circumstance set our young philosopher thinking; and, after a while, it struck him that his father, in using the beam, had applied his strength to its extremity, and this, he immediately concluded, was, probably, an important elevance of the point on which it rests from the full crum, but discovered the rule, or law of the machine, namely, that he effect of any form or weig

soto what was acknowledged to be the region of true philosophy.

"It is a ludicrous blunder that the French astronomes, Lalande, makes, in speaking of Ferguson, when he designates him, as "Berger au Roi d'Angleterre en Ecosse; the King of England's Shepherd for Scotland. He had no claim to this pompous title; but it is true that he spent some of his early years as a keeper of sheep, though in the employment not of the state, but of a small farmer in the neighbourhood of his native place. He was sent to this occupation, he tells us, as being of weak body; and while his flock was feeding around him, he used to busy himself in making models of mills, spinning-wheels, &c., during the day, and in studying the stars at night like his predecessors of Chaldea. When a little older, he went into the service of another farmer, a respectable man called James Glashan, whose name well deserves to be remembered. After the labours of the day, young Ferguson used to go at night to the fields, with a blanket about him, and a lighted candle, and there, laying himseld down on his back, pursued, for long hours, his observations on the heavenly bodies. 'I used to stretch,' says he, 'a thread, with small beads on it, at arm's length between my eye and the stars, sliding the beads upon it till they hid such and such stars from my eye, in order to take their apparent distances from one another; and then laying the thread down on a paper, I marked the stanthereon by the beads.' 'My master,' he adds, 'at first laughed at me; but when I explained my meaning to him, he encouraged me to go on; and, that I might make fair copies in the day-time of what I had done in the night, haven memory of that man. Having been employed by his master to carry a message to Mr. Gilchrist, the minister of Keith, he took with him the drawings he had been making, and shewed them to that gentleman. Mr. Gilchrist, upon this, put a map into his hands, and having supplied him with compasses, ruler, pens, ink, and paper, desired him to take it home with him, and br ilosophy.

It is a ludicrous blunder that the French astron

with my compasses, ruler, and pea.' This is a beautiful, we may well say, and even a touching picture,—the good man so generously appreciating the worth of knowledge and genius, that, although the master, he voluntarily exchanges situations with his servant, and insists upon doing the work that must be done, himself, in order that the latter may give his more precious talents to their more appropriate vocation. We know not that there is on record an act of homage to science and learning more honourable to the author.

an act of hemage to science and learning more honourable to the author.

"Having finished his map, Ferguson carried it to Mr. Gilchrist's, and there he met. Mr. Grant of Achoynamey, who offered to take him into his house, and make his butler give him lessons. I told Squire Grant,' says he, 'that I should rejoice to be at his house, as soon as the time was expired for which I was engaged with my present master. He very politely offered to put one in my place, but this I declined. When the period in question arrived, accordingly, he went to Mr. Grant's, being now in his twentieth year. Here he found both a good friend and a very extraordinary man in Cantley, the butler, who had first fixed his attention, by a sun-dial which be happened to be engaged in painting on the village schoolhouse, as Ferguson was passing along the road, on his second visit to Mr. Gilchrist. Dialling, however, was only one of the many accomplishments of this learned butler, who, Ferguson assures us, was profoundly conversant both with arithmetic and mathematics; played on every known musical instrument except the harp; underversant both with arithmetic and mathematics; played on every known musical instrument except the harp; understood Latin, French, and Greek; and could let blood, and prescribe for diseases. These multifarious attainments he owed, we are told, entirely to himself and to nature; on which account, Ferguson designates him 'God Almighty's

scholar.

"From this person Ferguson received instructions in Decimal Fractions and Algebra, having already made himself master of Vulgar Arithmetic, by the assistance of books. Just as he was about, however, to begin Geometry, Cantley left his place for another in the establishment of the Earl of Fife, and his pupil thereupon determined to return home to his father.

determined to return home to his father.

"Cantley, on parting with him, had made him a present of a copy of Gorton's Geographical Grammar. The book contains a description of an artificial globe, which is not, however, illustrated by any figure. Nevertheless, from this description,' says Ferguson,' I made a globe in three weeks at my father's, having turned the ball thereof out of a piece of wood; which ball I covered with paper, and delineated a map of the world upon it; made the meridian ring and horizon of wood, covered whem with paper and graduated them; and was happy to find that, by my globe, (which was the first I emer saw,) could solve the problems."

sind that, by my globe, (which was the first I emer saw,) could solve the problems.'

"For some time after this, he was very unfortunate. Finding that it would not do to remain idle at home, he imaged in the service of a miller in the neighbourhood, who, feeling, probably, that he could trust to the honesty and capacity of his servant, soon began to spend all his own time in the alehouse, and to leave poor Ferguson at home, not only with every thing to do, but with very frequently, nothing to eat. A little oatmeal, mixed with cold water, was often, he tells us, all he was allowed. Yet in this situation he remained a year, and then returned to his father's very much the weaker for his fasting. His next master was a Dr. Young, who having induced him to enter his service by a promise to instruct him in medicine, not only broke his engagement as to this point, but used him in other respects so tyrannically, that, although engaged for half a year, he found he could not remain beyond the first quarter; at the expiration of which, accordingly, he came away without receiving any wages, having 'wrought for the last fortnight, 'says he, 'as much as possible with one hand and arm, when I could not lift the other from my side.' This was in consequence of a severe hurt he had received, which the dector was too busy to look to, and by which he was confined to his bed for two months after his return home.

"Reduced as he was, however, by exhaustion and a tactual pain, he could not be idle. 'In order,' says he to amuse myself in this low state, I made a wooden elock, the frame of which was also of wood, and it kept time pretty well. The bell on which the hammer struck the hours, was the neck of a broken bottle.' A short time after this, when he had recovered his health, he gave a still more extraordinary proof of his ingenuity, and the fertility of his resources for mechanical invention, by a spring. But we must allow him to give the history of this matter in his own words.

"Having, then,' he says, 'no idea how any time rices

fertility of his resources for mechanical invention, by actually constructing a timepiece, or watch, moved by a spring. But we must allow him to give the history of this matter in his own words.

""Having, then,' he says, 'no idea how any timepiece could go but by a weight and a line, I wondered how a watch could go in all positions; and was sorry that I had never thought of asking Mr. Cantley, who could very easily have informed me. But happening one day to see a gentleman ride by my father's house, (which was close by a public road,) I asked him what o'clock it then was! He looked at his watch and told me. As he did that with so much good nature, I begged of him to shew me the inside of his watch; and, though he was an entire stranger, he immediately opened the watch, and put it into my hands. I saw the spring-box with part of the chain round it; and ked him what it was that made the box turn round. He told me that it was turned round by a steel spring within it. Having, ther never seen any other spring than that of my father's gunlock, I asked how a spring within a box could turn the box so often round as to wind all the chain upon it. He answered, that the spring was long and thin; that one end of it was fastened to the axis of the box, and the other end to the inside of the box; that the axis was fixed, and the box was loose upon it. I told him that I did not yet thoroughly understand the matter. "Well

my lad," says he, "take a long then piece of whalebone, hold one end of it fast between your finger and thumb, and wind it round your finger; it will then endeavour to unwind itself; and if you fix the other end of it to the inside of a small hoop, and leave it to ittelf it will turn the hoop round and ound, and wind up a thread tied to the outside of the hoop." I thanked the gentleman, and told him that I understood the thing very well I then tied to make a watch with wooden wheels and made the spring of whalebone; but found that I could not make the wheel go when the balance was put on, because the teeth of the wheels were rather too weak to bear the force of a spring sufficient to move the balance, although the wheels would run fast enough when the balance was taken off I enclosed the whole in a wooden case, very little bigger than a breakfast tea-cup; but a clumsy neighbour one day looking at my watch, happened to let it fall, and, twuing hastily about to pick it up, set his foot upon it, and crushed it all to pieces; which as provoked my father, that he was almost ready to beat the man, and discouraged me so much. that I never attempted to make such another machine again, especially as I was thoroughly convinced I could never make one that would be of any real use."

"What a vivid picture is this of an ingenious mind thirsting for knowledge! and who is there, too, that does not envy the pleasure that must have been felt by the courteous and intelligent stranger by whom the young mechanician was carried over his first great difficulty, if he ever chanced to learn how greatly his unknown questionar had profited from their brief interview! That stranger might probably have read the above narrative, as given to the world by Ferguson, after the talents which this little incident probably contributed to develop, had raised him from his obscurity to a distinguished place among the philosophers of his age; and if he did know this, he must have felt that encouragement in well-doing which a benevolent man may always

because the wealthy and powerful have never understood the value of a helping hand to him who is struggling with fortune."—Library of Entertaining Knowledge.

[Such is the history of Ferguson's struggles in the early part of his life. He afterwards applied himself, apparently without the least effort, to the business o portrait-painting, by which he subsisted for several years in Edinburgh and London; till finally his philosophical powers obtained the notice and patronage which they deserved, and he stood forth one of the first men of the age. His numerous publications are well known, and have been translated into most of the European languages. He died in 1776, having, for some years, enjoyed a pension from George III., whose beneficence to men of science has conferred great lustre upon his reign as well as upon his own private character.]

A SEA FIGHT BETWEEN THE BRITISH AND FRENCH.

On the 30th of December, 1794, the British twelve-pounder, thirty-two gun frigate, Blanche, Captain Robert Faulknor, cruising off the island of Désirade, one of the dependencies of Guadeloupe, and in French possession, chased a large French armed schooner, under the fort at the bottom of the bay. This being accomplished, "the Blanche, at about 6, r. m., steered straight for Pointe-a-Pitre: and, on arriving within four miles of the port, lay to for the night. On the next day, the 4th, at daybreak, he Blanche discovered the Pique lying at anchor just outside of the harbour. At about 8 h. 30 m. the Blanche made sail to meet the French ship and schooner, until nearly within gunshot of Fort Fleur-d'Epée; when finding the Pique apparently disinclined to come out from the batteries, the Blanche, who had hove to, made sail to board a schooner running down along Grande-terre. At this time Pointe-à-Pitre bore from the Blanche northwest, distant two leagues, and the French frigate north-northwest, distant three miles.

At half-past noon, the Pique filled and made sail to-

west, distant three miles.

At half-past noon, the Pique filled and made sail towards the Blanche. At 2, p. M. the Pique crossed the Blanche on the oppsite tack, and, hoisting French colours, fired four shots at her. This challenge, as it might be considered, the British frigate answered, by firing a shot to windward. The battery at Gosier also fived two shots; but they, like those of the frigate, fell short. At 2 h. 30 m. p. M., finding that the Pique had tacked, and was standing towards her, the Blanche shortened sail for the French frigate to come up; but at 3 h. 30 m. p. M., the latter tacked and stood away.

"In hope to induce the Pique to follow her, the Blanche, under top sails and courses, stood towards Marie-Galante. At 7, p. M., observing the Pique still under Grande-terre, Captair Faulknor took out the American crew from the

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schooner, and sent on board a petty officer and party of men. The Blanche then wore, and stood towards the island of Dominique, with the schooner in tow. At about two leagues distant, standing after the Blanche. The latter immediately cast off the schooner, and, tacking, made all

immediately cast off the schooner, and, tacking, made all sail in chase.

"At about a quarter past midnight, the Blanche, on the starboard tack, passed under the lee of the Pique on the larboard tack, and returned the distant broadside which the Pique had fired at her. At half-past midnight, having got nearly in the wake of her opponent, the Blanche tacked, and, at a few minutes before 1, A. M., on the 6th, just as she had arrived within musket-shot upon the starboard quarter of the Pique, the latter wore, with the intention of crossing her opponent's hawse, and raking her ahead. To frustrate this mancavere, the Blanche wore also; and the two frigates became closely engaged, broadside to broadside.

"At about 2 h. 30 m. a. M., the Blanche, having shot ahead, was in the act of luffing up to port, to rake the Pique ahead, when the former's wounded mizen and mainmasts, in succession, fell over the side. Almost immediately after this, the Pique ran foul of the Blanche on her larboard quarter, and made several attempts to board. These attempts the British crew successfully resisted; and the larboard quarter-deck guns, and such of the maindeck ones as would bear, were fired with destructive effect into the Pique's starboard bow; she returning the fire from her tops, as well as from some of her quarter-deck gans, run in amidships fore and aft. At a few minutes before 3, A. M., while assisting his second liquetannt, Mr. David Milne, and one or two others of his crew, in lashing, with such

gras, run in amidships fore and aft. At a few minutes before 3, a. m., while assisting his second lieutenant, Mr. David Milne, and one or two others of his crew, in lashing, with such ropes as were handy, the bowsprit of the Pique to the capstan of the Blanche, preparatory to a more secure fastening, by means of a hawser, which was getting up from below, the young and gallant Captain Faulknor fell by a assket ball through his heart.

"At this moment, or very soon afterwards, the lashings broke loose; and the Pique, crossing the stern of the Blanche, who had now begun to pay off for the want of after-sail, fell on board the latter, a second time, upon the starboard quarter. In an instant, the British crew, with the hawser which just had before been got on deck, lashed the bowsprit of the Pique to the stump of their own mainmast. In this manner, the Blanche, commanded now by Lieutenant Frederick Watkins, towed before the wind her resolute opponent, whose repeated attempts to cut away this lenagt Frederick Wakins, towed defore the wind her resolute opponent, whose repeated attempts to cut away this second lashing, were defeated by the quick and well-directed fire of the British marines. In the meanwhile, the constant atream of musketry poured upon the quarter-deck of the Blanche, from the forecastle and tops of the Pique, and a well directed fire from the latter's quarter-deck guns, pointed forward, gave great annoyance to the former particularly as, having, like many other ships in the British particularly as, having, like many other ships in the British any at this period, no stern-ports on the main deck, the cannonade on the part of the Blanche was confined to two quarter-deck six-pounders. The carpenters having in vain tried to cut down the upper transom beam, no alternative remained, but to blow away a part of it on each side. As soon, therefore, as the firemen, with their buckets, were assembled in the cabin, the two after-guns were pointed against the stern-frame. The discharge made a clear breach on both sides, and the activity of the bucket-men quickly

assembled in the cabin, he two after-guns were pointed against the stern-frame. The discharge made a clear breach on both sides, and the activity of the bucket-men quickly extinguished the fire it had occasioned in the wood-work. The two twelve-pounders of the Blanche, thus brought into use, soon played havor upon the Pique's decks.

"At about 3 h. 15 m. a. M., the main mast of the French ligats (her fore and mizen-masts having previously come down) fell over the side. In this utterly defenceless state, without a gun which, on account of the wreck of her masts, she could now bring to bear, the Pique sustained the raking fire of the Blanche until 5 h. 15 m. a. M.; when some of the French crew, from the bowsprit end, called aloud for quarter. The Blanche immediately ceased her fire; and every heat in both vessels having been destroyed by shot, Lieutenant Milne, followed by ten seamen, endeavoured to reach the prize by means of the hawser that still held her; but their weight bringing the hight of the rope down in the water, they had to swim a part of the distance.

"The Blanche, besides her 32 long 12 and 6-pounders, mounted six 18-pounder carronades, total, 38 guns; and, having sent away in prizes two master's mates and 12 seamen, she had on beard no more than 196 men and boys. Of these the Niewhelm of the comment of the carronades.

having sent away in prizes two master's mates and 12 sea-men, the had on beard no more than 198 men and boys. Of these, the Blanche lost her commander, one midship-man, five seamen, and one private marine killed; one midshipman, two quarter-masters, the armourer, one serjeant of marines, twelve seamen, and four private ma-rines, wounded: total, eight killed, and twenty-one wounded.

The Pique was armed with two carriage-guns, The Fique was armed with two carriage-gons, opponders, less than her establishment, or 38 in all; but she mounted, along her gunwale on each side, several brass swivels. Respecting the number composing the crew of the Pique, the accounts are very contradictory. Lieutecant Warkins, in his official letter, states the number at 360; and Vice-Admiral Caldwell, at Martinique, when the the state of the Admirals, saws, many more 290; and Vice-Admiral Caldwell, at Martinique, where exclosing that letter to the Admiralty, says, 'many more than 360.' On the other hand, the three French officers examined before the surrogate of the Colonial Vice-Admiralty Court, subsequently deposed, two of them, to 'between 260 and 270 men,' and the third, to 'about 270 men,' as and and 270 men, and the third, to 'about 270 men, as the total number on board their ship when the action commenced. Upon these certificates, head-money was paid for 265 men; but, according to the documents transmitted along with those certificates, the actual number of men on board was 279."—James' Naod History.

EMIGRATION.

"I have said nothing," continues Mr. Fergusson, "hitherts of the price or value of land in Canada, and it is extremely difficult, in the settled parts of either province. to ascertain any thing like a fair average rate. Prices are

perpetually fluctuating, and must be regulated by the circumstances of the seller; one man being willing to sell his farm for five dollars an acre, under a strong desire to commence anew upon a forest tract, or labouring under necessity, while his next neighbour may probably refuse to part with similar land for less than ten or twelve dollars per acre. Of this, however, there is no doubt, that very eligible and advantageous purchases may, at all times, be made by a prudent capitalist, and that land is every year increasing in value, wherever it is desirable to possess it. Great bargains are sometimes obtained at public sales, by warrant of the sheriff, for payment of land taxes. Land thus sold is subject, for a certain short period, to be redeemed by the individual, or his heirs, who originally obtained the grant; but, as it seldon exceeds, at a sheriff thus sold is subject, for a certain short period, to be redeemed by the individual, or his heirs, who originally obtained the grant; but, as it seldon exceeds, at a sheriff sale, 6d, or 7d. per acre, it is well worthy of a trial. Steam navigation may be said to have been created for America, and it is difficult to estimate the advances which the States and the Canadas will soon make under its influence. To emigrants it not only affords a safe, cheap, and agreeable conveyance; but from the large concourse of passengers, a fund of valuable local information may always be procured, and useful acquaintances formed; while it is impossible to overlook the silent but important effects, in clearing the forest, which the consumption of fuel on board the steam-boats is destined to accomplish. Perhaps it is not fanciful to assert, that the woods of America are now actually clearing by means of stoam.

"York, the capital of Upper Canada, and seat of government, is a very desirable station for a settler to choose as head-quarters, in looking about for a purchase. He is sure, at this place, to meet with numerous offers of farms, regarding which he will do well to act with caution; and he will be able to inspect the plans of public lands in the government land-office, under the superintendence of Mr. P. Robinson, a gentleman able and willing to afford him every facility. The rich and heavy land of Upper Canada is not to be found, in general, upon the immediate banks of the lakes and rivers. It lies, for the most part, from twelve to twenty miles back, and thus compensates the enterprising settler for plunging into the forest. Government have still, I believe, about four millions more, beyond the lines of what has been surveyed. No land is now

to dispose of, besides seven or eight millions more, beyond the lines of what has been surveyed. No land is now granted to individuals without payment, the price varying according to situation and quality, and subject to the regu-ation of clearing and fencing five acres within two years, erecting a house 16 feet by 20, and also clearing half of the

ad in front.

road in front.

"Another land-office, highly interesting to emigrants, is likewise to be found in York. It is here that the commissioners of the Canada Company reside, and have their principal establishment. This company, as is well known, purchased from government two and a half millions of acres in the Upper Province, with the view of disposing of it in lots to settlers, at an advanced price. The company is yet too much in its infancy to speculate upon results; but no reasonable doubt can be entertained that it must be a settlers.

is yet too much in its infancy to speculate upon results; but no reasonable doubt can be entertained that it must operate favourably in procuring settlers.

"A great progress has been made in the formation of roads, bridges, mills, &c., which government would not, and private individuals could not, have effected in the short period which has elapsed since the establishment of the company; and, although a feeling inimical to their measures shewed itself in some quarters, I confess myself unable to discover, for that jealousy, any reasonable cause. I hadvery full discussions with the commissioners and agents, from which, as well as from their published proposals, I feel satisfied that emigrants of every class may commit themselves to the Canada Company, in perfect assurance of experiencing the most kind, honourable, and liberal treatment. Circumstances dependent upon the state of a new country may delay the execution of plans beyond the promised period; but there can be no doubt of the company fulfilling all their ongagements as apecdily as possible. The prices of land vary from 71. 6d. to 16s. per acre. I was much impressed with a Foourable opinion of the Great Huron Tract, from the fart that many steady Dutch settlers, in the possession of old productive farms near York, were, at the period of my visit, disposing of their property and removing to Goderich,—a change which the calculating Dutchmen would not have rashly adopted, without pretty reasonable prospects of bettering himself to a considerable amount. "The township of Goderich contains about 400 inhabitants already, and several Dutch families from the neighbourhood of York have sold, or are endeavouring to sell, their cultivated and valuable farms, and have purchased lands from the company in the Huron tract. About 6000 acres have been sold them in the neighbour-

have purchased lands from the company in the Huron tract.

About 6000 acres have been sold them in the neighbour-hood of Goderich within the last six months. In Guelph very valuable mill has lately been erected, and one

Goderich is now in progress.

"In a young and thinly-settled country such as Canada, every accession of an industrious family, or individual tends to the welfare of all; and it is therefore natural to tends to the welfare of all; and it is therefore natural to suppose that such a corporation as the Canada Company would be fully awake to this principle. We find, accord-ingly, that in forming arrangements for forwarding emi-grants to their own lands, they have offered very favourable rooposals to emigrants at large. They state, that all per-sons depositing 201, with the Canada Company's agents in Quebec and Montreal, will be forwarded to the head of Lake (Intario by stamphosals force of enemes, and have liberty to Quebec and Montreal, will be forwarded to the head of Lake Ontario by steam-boats, free of expense, and have liberty to select land in any part of the province, at the current price charged by the company, when the whole amount of their deposit will be placed to their credit on account of their land. But, should they prefer purchasing from individuals, and not the company, then the expense of their conveyance will be deducted from the amount deposited, and the balence and the second seco and not the company, then the expense of their conveyance, will be deducted from the amount deposited, and the balance paid over to them Persons depositing a sum equal to their conveyance, with their familias and luggage, from Quelice to the head of the lake, may avail themselves of the company's contracts with the 'forwarders; and should

they, within three months after arrival, select land in Guelph, and pay one-fifth of the purchase-money, then the amount of their deposit in Quebec will also be placed so their credit, and they, their families, &c., be thus conveyed from Quebec free of expense."—Agricultural Journal.—

(To be continued.)

NEW SOUTH WALES.

From an interesting parliamentary paper, it appears that the average expense of transporting a convict to New South Wales, which was in 1827, 244. 1s. 6d., is now considerably under 204.; and that the average expense of actually maintaining and clothing a male convict there was, in 1821, 224. 9s. 8d., but that now it does not exceed 74. 3d. The test pumper of male convictions in the secretary of the secretary o total number of male convicts in the colony on the 1st November, 1828, including those assigned to individuals, and those allowed to provide for themselves by ticket of leave; as a superscript of the services of the servic The total number of female convicts under the

1 513

15 868 Total The total expenditure of the government of the colony the year 1829, is stated to be £306,439 8
Of which was contributed by the coloniat

99,933 15

Leaving to be borne by the government a total of £206,505 13 6 which sum, divided by the number of convicts maintained in the colony, gives 111. 5s. 6d. as the expense of each. It should, however, be remarked, that in the in the colony, gives 11t. 5s. 6d. as the expense of each. It should, however, be remarked, that in the expenditure for the year 1829, are included two sums of 78,493t. and 20,000t, the former for the "provisions, clothing, fuel; and the necessaries provided in the colony for the use and maintenance of the convicts;" the latter for the estimated costs of stores sent from England, and amount of expenses incurred but not yet brought to account. The year 1829 was the last of a series of four years of drought and scaricity, and a great proportion of the wheat consumed in the colony during that year was imported from Van Dieman's Land; in consequence of this the average price was not less than 10s. per bushel, more than double the price of 1831. The price of maize during the same year was not lower in proportion than that of wheat, and animal food was also from 50 to 75 per cent. higher than it has since become; this leaves no doubt that the maintenance of the same number of convicts, which in 1829 cost 78,493t., would not in 1831, or any future year, cost more than ould not in 1831, or any future year, cost more than ,0001. The estimate for stores, materials, &c., required from England during the present year, does not exceed 7,000L; but, on the other hand, an increase may have 7,000d.; but, on the other hand, an increase may have taken place under the head of "police, gaols, &c.," to the amount of probably 5,000t. It will consequently follow, that, supposing (as is pretty near the truth) the number of convicts maintained by the crown in ordinary service, ar penal settlements, in gaols, hospitals, &c., will be the same in 1831 as it was in 1829, the demands upon the English Treasury will be reduced from 206,505t. to 170,000t., or 9t. 15s. for each convict. The aggregate of this estimate includes a sum of 64,000t. for the maintenance of troops in the protection of the colony, as well as in the control of the convicts, and all other charges to which the mother country is subjected on account of the colony.

According to a statement in a pamphlet published by

According to a statement in a pamphlet published by Mr. Potter Macqueen, M.P. for Bedfordshire, the average expense of a culprit in the Hulks in the years 1818-19-20-21, was 34 0 0 56 15 0

21, was
Ditto at Milbank Penitentiary
The lowest estimate (that of Worcester Gaol)
in a list of 11 Penitentiaries and Gaols
The average of the whole 11
The expense of sending a convict to New South
Wales is, in round numbers, say
Annual average expense of maintenance, say 28

20 0 12 0

If, therefore, a convict is five months on his voyage, which costs 201., and seven months in the colony at 11. per month, there will be a saving to the nation, in the lowest estimate of Mr. P. Macqueen, of 11. 2s. 4d, for each conwick in the first year of his quitting England. This clearly, shews the advantages derived from transporting convicts by the mother country, where labour is so plentiful, that the punishment of the criminals interferes with the employment of the helf strend country. punishment of the criminals interest of the half-starved pauper.

Negro Ducton.—Of the thirteen months which Dam-pier spent in Virginia he has left no record: but from Neono Docton.—Of the thirteen months which Dampier spent in Virginia he has left no record: but from another portion of his memoirs, it may be gathered that he suffered from sickness during most of the time. His disease was not more singular than was the mode of cure practised by a negro Esculapius, whose appropriate fee was a white cock. The disease is what is called the Guineaworm. "These worms," says our navigator, "are no bigger than a large brown thread, but (as I have heard) five or six yards long, and if it break in drawing out, that part which remains in the flesh will putrify, and endanger the patient's life, and be very painful. I was in great torment before it came out. My leg and ankle swelled, and looked very red and angry, and I kept a plaster to it to bring it to a head. Drawing off my plaster, out came about three inches of the worm, and my pain abated presently. Till then I was ignorant of my malady, and the gentlewoman at whose house I lodged took it (the worm) for a nerve; but I knew well enough what it was, and presently rolled it upon a small stick. After that I opened it every morning and evening, and strained it out gently, about two inches at a time, not without pain. The negro-dactor first stroked the place affected, then applied some frough provides to it, like tobacco leaves crumbled, next muttered a spell, blew upon the part three times, waved his hands as often, and said that in three days it would be well. It proved so, and the stipulated fee of the white cock was gladly paid.—Edinburgh Cabinet Library.

COLUMN FOR THE BOYS.

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o it the and Aostranto the plan upon which I set out, I now commence a series of amusing articles for the perusal of my juvenile readers. In the execution of this willing duty, I am wonderfully assisted by a recently published volume, entitled, "I'm Bors? Ows Boos, or a complete Energelopeius of all the Directions, athietic, exicutific, and recreative, or Boylond and Youth," published by Vicetelly, Branston, and Co., Fleet-street, London, 1830 Exceedingly few of my young Scottish readers can have possibly seen this delightful production, which is written with great taste and judgment. "We heartly trust that our young readers," says the author, "will commence the perusal of our pages with pleasure equal to that which we feel in sitting down to write them, and that we shall go pleasantly together through our work. The description of these Minor Sports, most one of the complex of

at, every feast day, under penalty of one halfpenny, when they should omit this exercise. During the reign of Henry VIII., several statutes were made for the promotion of archery. An act of parliament, in Elizabeth a reign, regulated the price of bowa. Charles I. is said to have been an archer; and, in the eighth year of his reign, he issued a commission to prevent the fields near London being so enclosed as "to interrupt the necessary and profitable exercise of shooting." So lately as the year 1753, targets were erected in the Finsbury fields, during the Easter and Whitsuntide holidays, when the best shooter was styled "Captain," for the ensuing year, and the second "Lieutenant." Edward VI. in his Journal, says, that one hundred archers of his guard shot, before him, two arrows each, and afterward, altogether; and that they shot at an inch board, which some pierced quite through with the heads of their arrows, the board being well-seasoned timber. The disarnoe of the mark is not mentioned. As a pastime, there is none, perhaps, superior to this; it is now, and for years past has been, highly popular in this country. In fact, judging from the past and the present, we may venure to predict, that—

The Bour.—The young Archer should, in the first place, select a bow that is fit and proper for his own size and strength. It is not probable that, let him be ever so skilful, he will be able to achieve such an exploit, as the construction of a good bow himself; bow-making being a trade which requires many years practice and much attention. In fact, there are few persons, now-a-days, although there are many bowyers, who can manufacture bows of a superior description. [Mr. Muir, Archers' Hall, Edinburgh, is, doubtless, the most skilful bowyer of the day, and to him we recommend our young friends to apply, if they have any inclination to equip themselves in proper style, for the enjoyment of the noble pastime of Archery.]

The back of the bow is the flat outside, and the belly the round inside part of it. The round inside

so as to taper gradually from the leathers to the pile, and some rice versa; others, again, are thickest in the centre. All arrows should have their nocks or notches cased with horn, and the nocks should be of such a size, as to fit the string with exactness, and be neither too tight nor too cose. Three goose or turkey feathers are affixed to arrows; one of these, denominated the cock feather, is of a different colour from the other two; and this is always to be "aced

The Tassel.-This is very necessary to the Archer, for the purpose of cleaning the arrow from such dirt as generally adheres to it, if it enter the ground. This dirt, if suffered to remain, will impede the arrow in its flight, and also render its course untrue. The tassel is suspended on the left side of the Archers, and is thus always at hand

for use.

The Glow.—The glove consists of places for three fingers, a back thong, and a wrist strap to fasten it. The finger-stalls should neither project far over the tops, not be drawn back to cover the first joint. The glove a used for the purpose of protecting the fingers from being hurt by the string.

The Brace.—The brace is worn on the bow arm, to save it from being injured by the string, which, without this protection, would, in all probability, incapacitate the Archer from shooting long at a time. It is made of stout leather, with a very smooth surface, so that the string may glide over it without impediment.—To be continued.

may long to know. His senses, too, inform him of a multide of particulars respecting the external world, and he provided the has obtained the control, is, in many respects, exceedingly remarkable. Compared with its other denizes, he seems, if we tagard only his physical constitution, in almost every respect their inferior, and equally upprovided for the supply of his natural wants and his defence against the innumerable enemies which surround him. No other animal passes so large a portion of its existence in a state of absolute helplessness, or falls in old age into such protracted and lamentable imbeelity. To no other warm-blooded animal has nature donied that indispensable covering, without which the vicissitudes of a temperate, and the signors of a cold climate are equally insupportable; and to scarcely any has she been so sparing in external weapons, whether for attack or defence. Destitute alike of speed to avoid, and of arms to repel the aggressions of his voracious foes; tenderly susceptible of a time the substance of the corner alineants which the earth affords spontaneously, during at least two-thirds of the year, even in temperate climates,—man, if abandoned to mere instinct, would be of all creatures the most destitute and misrable. Distracted by terror, and goaded by famine; during the continued suberringe or stratagem;—his dwelling would be in dens of the earth, in clefts of rocks, or in the hollow of trees; his food worms, and the lower policy or such few and crude productions of the soil, as his organs could be brought to assimilate, varied with occasional relies, amangled by more powerful beasts of prey, or contemmed by their more pampered choice. Remarkable only for the absence of those powers and qualities which only for the absence of those powers and qualities which only for the absence of those powers and qualities which only for the absence of those powers and qualities which only for the absence of those powers and qualities which only for the absence of those powers and qualities which o

others, till after a few generations his species would become altogether extinct, or, at best, would be restricted to a few uslands in tropical regions, where the warmth of the climate, the paucity of enemies, and the abundance of vegetable food, might permit it to linger.

(2). Yet man is the undisputed lord of the creation. The strongest and fiercest of his fellow-creatures,—the whale, the elephant, the eagle, and the tiger, are slaughtered by him to supply his most capricious wants, or tamed to do him service, or imprisoned to make him sport. The spoils of all nature are in daily requisition for his most common uses, yielded with more or less readiness, or wrested with reluctance, from the mine, the forest, the ocean, and the air. Such are the first fruits of reason. Were they the only or the principal ones, were the mere acquisition of power over the materials, and the less gifted animals which surround us, and the consequent increase of our external only or the principal ones, were the mere acquisition of power over the materials, and the less gifted animals which surround us, and the consequent increase of our external comforts, and our means of preservation and sensual enjoyment, the sum of the privileges which the possession of this faculty conferred, we should, after all, have little to plume ourselves upon. But this is so far from being the case, that every one who passes his life in tolerable ease and comfort, or rather, whose whole time is not anxiously consumed in providing the absolute necessaries of existence, is conscious of wants and cravings in which the senses have no part, of a series of pains and pleasures totally distinct in kind from any which the infliction of bodily misery, or the gratification of bodily appetites, has ever afforded him; and if he has experienced these pleasures and these pains in any degree of intensity, he will readily admit them to hold a much higher rank, and to deserve much more attention, than the former class. Independent of the pleasures of fancy and imagination, and social converse, man is constituted a speculative being, he contemplates the world, and the objects around him not with a passive indifferent gaze, as a set of phenomena in which he has no farther interest, than as they affect his immediate situation, and can be rendered subservient to hir comfort, but as a system disposed with order and design. He approves, and feels the highest admiration for the harmony of its parts, the skill and efficiency of its contrivances. Some of these which he can best trace and uncomfort, but as a system disposed with order and design. He approves, and feels the highest admiration for the harmony of its parts, the skill and efficiency of its contrivances. Some of these which he can best trace and understand, he attempts to imitate, and finds that, to a certain extent, though rudely and imperfectly, he can succeed,—in others, that although he can comprehend the nature of the contrivance, he is totally destitute of all means of imitation; while in others, again, and those evidently the most important, though he sees the effect produced, yet the means by which it is done, are alike beyond his knowledge and his control. Thus he is led to the conception of a Power and an Intelligence superior to his own, and adequate to the production and maintenance of all that he sees in nature,—a Power and Intelligence to which he may well apply the term infinite, since he not only sees no actual limit to the instances in which they are manifested, but finds, on the contrary, that the farther he inquires, and the wider his sphere of observation extends, they continually open upon him in increasing abundance; and that, as the study of one prepares him to understand and appreciate another, refinement follows on refinement, wonder on wonder, till his faculties become bewildered in admiration, and his intellect falls back on itself, in utter hopelessness of arriving at an end.

(3). When from external spiects he turns his view upon

his intellect falls back on itself, in utter hopelessness of arriving at an end.

(3). When from external objects he turns his view upon himself—on his own vital and intellectual faculties, he finds that he possesses a power of examining and analyzing his own nature to a certain extent, but no farther. In his corporeal frame he is sensible of a power to communicate a certain moderate amount of motion to himself and other objects; that this power depends on his will, and that its exertion can be suspended or increased at pleasure within certain limits; but how his will acts on his limbs he has no consciousness; and whence he derives the power he certain limits; but how his will acts on his limbs he has no consciousness; and whence he derives the power he thus exercises, there is nothing to assure him, however he may long to know. His senses, too, inform him of a multitude of particulars respecting the external world, and he perceives an apparatus by which impressions from without may be transmitted, as a sort of signals, to the interior of his person, and ultimately to his brain, wherein he is obscurely sensible that the thinking, feeling, reasoning being he calls himself; more especially resides, but by what means he becomes conscious of these impressions, and what is the nature of the immediate communication between that inward sentient being, and that machinery.

own bosom, and analyzing the operations of his mind,—it this as in all other things, in short, "a being darkly wise;" seeing that all the longest life and most vigorous intellect can give him power to discover by his own research, or time to know by availing himself of that of others, serves only to place him on the very frontier of knowledge, and afford a distant glimpse of boundless realms beyond, where no human thought has penetrated, but which yet he is surmust be no less familiarly known to that Intelligence which he traces throughout creation, than the most obvious truths which he himself daily applies to his most trifling purposes. Is it wonderful that a being so constituted should first encourage a hope, and by degress acknowledge an assurance, that his intellectual existence will not terminate with the dissolution of his corporeal frame, but rather that in a future state of being, disencumbered of a thousand obstructions, which his present situation throws in his way, endowed with acuter senses, and higher faculties, he shall drink deep at that fountain of beneficent wisdom for which the slight taste obtained on earth has given him so keen a relish i—Hanschet. Lardner's Cyclopedio.

To be continued.

To be continued.

ODE TO POVERTY.

I formerly announced that no poetry should be admitted into the Edinburgh Journal. This, I find, has occasioned regret among some very respectable persons. Poetry, they say, is a branch of the Belles Lettres, tending to polish, soften, and hamanize. I therefore have resolved to admit occasionally short poems—only of such a nature, however, as are really calculated to have any effect in improving the minds or hearts of my readers. Of such a nature I judge the following composition, which appeared in Blackwood's Magazine, for April, 1839. It is the production of a humble Scottish rustic—William Park—who acts as farm servant, or "minister's man," to the Rev. Mr. Brown of Eskdale-Muir. That sentiments so refined, and thoughts opprofund should reside in a peanant, whose opportunities of improving his mind are probably of the most limited nature, is in itself most wonderful, and proves, if proof were wanting, how highly the rural people of Scotland are exalted in the scale of intellect. It also proves a far more important thing—that there is no lot so mean but it may be ennobled by virtuous feeling, and the triumphs of inborn genius.

genius.

Haiti nighty power! who o'er my lot Presidest uncontroll'd and free; Sole raier of the rural cot,

I bid thee halt, dread Poverty!

Thine aid I crave to gaide my strain,
Nor shail I sapplicate in vain.

When on this world of woe and toil,

A helpicas stranger I was cast,
Like marizer on desert isle,

The sport and victum of the blast,
Thy russet robe was o'er me flung,
And to thy coid, lean hand I clung.

And to thy cold, lean hand I clang.
In youth I felt thy guardian care,
Each saving, self-denying rule,
Awful for those of fortune spare,
I learnt and practised in thy school;
And of my lengthen'd life at large,
Thou still hast taken special charge,
Much have I seen—much more I've heard,
O'c thance and change in this vain world;
The low to high esiste preferr'd—
From high estate the haughty hard'd;
But chance or change ne'er pass'd o'er me—
Pra still thy subject, Poverty I'
Oh how survise are they who excen

Oh how nawise are they who scorn
Thy homely garb and homely fare;
Who scale the tropic's herning boarne,
Ideal happiness to share;
hey tread the wild, and plough the wave,
a quest of gold—but find a grave.)

In quest of good—out more a grant property of the grant by sainty laws, Who sparn thy saintary laws, And count thy badge a mark of shame, And hold it sin to own thy cause. Fools that they are 1 they never knew Thy guiltless pride—thy spirit true.

Thy gutties prine—tay spars true.

Pall off in danger's darkest day
Thy ross have proved their country's shi
When wealth's effeminate array
Appear'd not on the battle field:—
Twas theirs to grasp the patriot brand,
That dropp'd from luxury's nerveless hand.

That dropp'd from luxury's nerveless hand Paill oft, where wealth-engender'd crime Roll'd o'er the lands its whelming tide, Their fervent faith and hope sublime Have stable proved, though seriey tried: Is virtue's heavenward path they trode, When Pleasure's sons forsook their God. And yet nor stone, nor poet's strain, Recards their honours undefil'd; Even poesy would weave in vain The lauret wreath for penury's child: Should fashion sneer, or fortune fruwn, Twould wither ere the san went down.

But greater, happier far is he,
More ample his reward of praise,—
Though he aboud misery's kinsuan be,
Though hardship cloud his early days,
Who triumphs in temptation's hour,
Than he who want he warlike tower.

han he was winter as a verife his name On history's ever living page! Vast though the thrilling tramp of fame Echo it not from age to age! Its bissound bright is realms on high, Caroli'd in records of the sky.

What though the hireling hard be muta,
When humble worth for notice calls,
There wants not voice of harp or inte
To bynn it high in heavenly halls:
Around the cell where wirne weeps,
His nightly watch the scraph keeps.
If peace of mind your thoughts employ,
Ta restless murmaring sons of earth i
Ah! shun the splendid hannts of joy,
Feace dwelts not with unboly mirth;
But oft amidst a crowd of wees,
As in the desert blooms the ruse

Thick fly the hostile shafts of fate, And wreck and ruin mark their course, But the pure spirit, farm, sedate, Nor feels their flight, nor fears its force; So storms the occan's surface sweep, White calm below the waters steep.

Of may eternal peace be mine,
Though outward woes urge on their war,
And Hope do thon my path define,
And light it with thy radiant star.
Thou, Hope ! who through the shades of surrow,
Couldst trace the dawn of joy's bright morrow.

Then, Hope: who through the shades of surrow, Couldst trace the dawn of joy's bright morrow.

Lion Hunting.—Ten or twelve colonists, mounted and armed with their large guns, go out, and having, with the sassistance of their dogs and Hottentots, sacertained where the spoiler lies, approach within a moderate distance, and then alighting, make fast the horses to each other by their bridles and halters. They then advance to within about thirty paces, backing the horses before them, knowing to within what distance, and being aware, from his aspect and motions, whether he is likely to anticipate their attack. As they advance, the lion at first surveys them calmly, and wags his tail as in a pleased or playful humour; but when they approach nearer, he begins to growl, and draws his hind parts under his breast till almost nothing of him is seen, except his bushy, bristling mane, and his eyes of living fire gleaming fiercely from the midst of it. He is now fully enraged, and only measuring his distance, in act to spring upon his audacious assailants. This is the critical moment, and the signal for half the party to fire. If they are not succeasful in killing him at the first volley, he springs like a thunderbolt upon the horses. The rest of the party then pour in their fire upon him, which seldom fails to finish his career, though, perhaps, with the loss of one or more horses; and sometimes, though more rarely, some even of the huntamen are destroyed in these dangerous encounters.—Thomson's Travels in Africs.

The Hummino Bird.—Frequently as the humming bird has been described since it was seen by Dumpier, his account of this the most delicate and lovely of the feathered tribe, is as fresh and beautiful as when the young seaman, charmed with its loveliness, first entered a description of it in his rode journal:—"The humming bird is a pretty little feathered creature, no bigger than a small needle, and with legs and feet in proportion to its tody. This creature does not wave its wings like other birds when it flies, but k

Burgh Cabinet Library.

THE NATERE AND PROPERTIES OF MILK.—The chemical properties of this secretion differ somewhat in different animals. The milk of the cow has been most attentively examined, and it has the following properties:—"1. It is nearly opaque; white, or slightly yellow; of an agreeable sweetish taste, and a peculiar smell. Its specific gravity varies from 10.18 to 10.20. It boils at a temperature a little above that of water, and freezes at 32 deg. When allowed to remain a few hours at rest, a thick unctuous liquid collects upon its surface, called cream; the colour of the remaining milk becomes bluish white, and when heated to about 100 degrees, with a little rennet, it readily separates into a coagulum, or curd, and a serum, or whey. In this way, the three principal constituents of milk are separable from each other. 2. By the process of churning, cream is separated into butter and buttermilk; the latter being the whey united to a portion of curd. Butter may be consiis separated into butter and buttermilk; the latter being the whey united to a portion of curd. Butter may be considered as an animal oil, containing a small portion of curd and whey. 3. The curd of milk has the leading properties of coagulated albumen. Curd, in combination with various proportions of butter, constitutes the varieties of cheese. That containing the largest quantity of oil becomes semifluid when heated; it is prone to decomposition, and a large quantity of which consists of little else than curd or albumen, shrinks and dies when heated, curling up like a piece of horn. 4. Whey is a transparent fluid, of a pale yellow colour, and a sweetish flavour; by evaporation, it affords a minute quantity of saline matter, and a considerable proportion of sugar of milk."—Library of Agricultural and Horticultural Knowledge.

Willie Cossar Pins.—The large pins which the com-

of nature at this hour? how splendid the spangled sky! how soft the milky-way, clearly defined in its long course, as it lies apread out in the heavens! while, perhaps, from light clouds in the distant horison, the harmless lightning plays, as if to mock the fire-fly, which, rising from every spot, deepened, soars and plies its busy wings, filling the arr with incessant bright alternations of light and shade, and seeming to give life to the silence and stillness of the night. Accourt or THE PROKING—Professor Rennie, in a recent lecture at the King's College, gave an elaborate account of the far-famed Phoenis, which ought to prove not a little interesting to individuals trading under the name of this bird in insurance offices, iron companies, engine factories, stage coachs, steam packets, race horses, coal wharfs, coffee houses, and innumerable other heterogeneous things—imagined, it may be supposed, to derive a mysterious influence from the name of Phoenix. The earliest account of the Phoenix is given by Herodotus, the father of history; and this has been copied with additions, ((a story seldom loses in its transmission.) by Pliny, Tacitus, Pomponius, Mela, Horapolla, Mariana, and other writers. Among the rest, our old English writer Bartholomew Glantville, as translated by Trevisor, and printed in black letter by Wynkyn de Worde, in 1498, says:—St. Ambrose, in Exameron, sayth: of the humoure or ashes of feesix ariseth a newe byrde and wexeth, and, in space of tyme, he is clothed with fethers and wyngis, and restored into the kind of a byrde, and is the most fairest byrde that is—most like to the pecock in fethers, and loverth wilderness, and gadereth his meate of cleane greenes and fruites. Alasus spetch of this byrde, and saith, that whan the hyghest byshop Onyas had buylded a temple in the citie of Helyopolys in Egypt, to the lykeness of the tample of Herusalem, and the fyrst daye of Easter, whannehe hadde gathered moch sweete smellyng wood, and sette it on fyre upon the altar to the profession of the accoun

PUBLIC LIBRARIES OF EUROPE.—We are enabled to state the exact number of these useful establishments, though, on a superficial enumeration, they cannot amount to fewer than between seven and eight hundred; the contents of which have been estimated by Malthus at 19,847,000 volumes Of these contents, there are preserved in

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